

# MY Homework

## Lesson 6

### Problem Solving: Solve a Simpler Problem

## Homework Helper



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Leslie wants to plant flowers in a rectangular garden that has a length of 6 feet and a width of 5 feet. If a tree takes up a square that is 2 feet on each side in the middle of the garden, how much area is left to plant the flowers?

### 1 Understand

#### What facts do you know?

I know the length and width of the garden and the space the tree takes up.

#### What do you need to find?

I need to find the area of the garden remaining for flowers.

### 2 Plan

You can solve the problem by solving a simpler problem.

### 3 Solve

Find the area of the entire garden. (*hint*: Area = length  $\times$  width)

$$6 \times 5 = 30 \text{ square feet}$$

Find the area of the square the tree takes up.

$$2 \times 2 = 4 \text{ square feet}$$

Subtract the area of the tree from the area of the garden.

$$30 - 4 = 26 \text{ square feet}$$

So, Leslie can plant 26 square feet of flowers.

### 4 Check

#### Is my answer reasonable? Explain.

area of flower garden + area of tree = total area

$$26 \text{ square feet} + 4 \text{ square feet} = 30 \text{ square feet}$$



# Problem Solving

Solve each problem by solving a simpler problem.

1. Harold stores 10,656 pounds of grain for his 24 cattle. Each cow eats about 12 pounds of grain each day. How many days would the food supply last?
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2. **Mathematical PRACTICE 1** **Make Sense of Problems** The Pave the Way Company is installing a new walkway. The installer uses 13 paving stones for every foot of walkway. He needs 117 paving stones to complete the project and has used 78 paving stones so far. How many more feet of paving stones will he need to install to finish?
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3. Harvey collects rare marbles. He has 112 marbles in his collection. Each tray holds an equal number of marbles. If he uses 7 trays to hold all of the marbles, how many marbles will he display on 3 trays?
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4. Noelle's rectangular deck has a length of 18 feet and a width of 16 feet. If a hot tub takes up a square that is 4 feet on each side in the middle of the deck, how much area is left of the deck?
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5. Hilary wants to go on the Latin Club trip to Italy. It will cost \$2,730 for the trip. The trip is 30 weeks away and she wants to make equal weekly payments. How much money altogether does Hilary need to pay at the end of week 8?
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My Work!



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